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Feb 24, 2000

DERWENT-ACC-NO: 1993-067801
DERWENT-WEEK: 200014
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TITLE: Steel concasting mould reducing thermal stressing - with displacement rods inside coolant channels improving cooling conditions in mould wall

INVENTOR: BOYSEN, E; FLEMMING, G ; SCHOLZ, H ; STREUBEL, H

PATENT-ASSIGNEE:

ASSIGNEE

SMS SCHLOEMANN-SIEMAG AG

CODE

SCLO

PRIORITY-DATA: 1991DE-4127333 (August 19, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE <u>4127333</u> C2	February 24, 2000		000	B22D011/04
DE <u>4127333</u> A1	February 25, 1993		004	B22D011/04

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 4127333C2	August 19, 1991	1991DE-4127333	
DE 4127333A1	August 19, 1991	1991DE-4127333	

INT-CL (IPC): B22D 11/04

ABSTRACTED-PUB-NO: DE 4127333A

BASIC-ABSTRACT:

Steel concasting mould with cooling channels (1) stretching vertically along the wider side of the mould (3) has displacement rods (11) fitted inside the channels over the length of the main heating zone (9).

Pref. the rods stretch from the optical fitting level (8) downwards for approx. 100-250 mm. The rod may be eccentrically located inside the channel to concentrate the coolant flow. The max. dia. (Qmax) of the rod is reduced towards its two ends and is supported by a screw (13) at its top and by pins (14) at its bottom. In an alternative embodiment the rod may have a constant dia. throughout its length.

ADVANTAGE - Reduces the thermal stressing on the heating zone leading to better mould stability and crack resistance. The improved cooling effect ensures castings with better surface quality.

CHOSEN-DRAWING: Dwg. 1/5

TITLE-TERMS : STEEL CONCAST MOULD REDUCE THERMAL STRESS DISPLACEMENT ROD COOLANT CHANNEL IMPROVE COOLING CONDITION MOULD WALL

DERWENT-CLASS: M22 P53

CPI-CODES: M22-G03A1;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1993-030134

Non-CPI Secondary Accession Numbers: N1993-052005